

	1	10	20	30	
1	M D V F M K G L S K A K E G V V A A A E K T K Q G V A E A A G C K T - - - - -	K E G V L Y	Homo sapiens		
1	M D V F M K G L S K A K E G V V A A A E K T K Q G V A E A A G C K T - - - - -	K E G V L Y	Rattus norvegicus		
1	M D V F M K G L S M A K E G V V A A A E K T K Q G V T E A A E K T - - - - -	K E G V L Y	Bombyx mori		
1	M D V F M K G L S K A K E G V V A A A E K T K Q G V A E A A G C K T - - - - -	K E G V L Y	Sorbus canadensis		
1	M D V L K K G G S F A K E G V V A A A E K T K Q G V Q D D A A E K T K E G V M Y	Taraxacum officinale			

	40	50	60	70	80																																														
40	V	G	S	K	T	K	E	G	V	H	G	V	A	T	V	A	E	K	T	K	E	Q	V	T	N	V	G	G	A	V	V	T	G	V	T	A	V	A	Q	K	T	V	E	G	A	G	S	I	A	<i>Uta stansburiana</i>	
40	V	G	S	K	T	K	E	G	V	H	G	V	T	T	V	A	E	K	T	K	E	Q	V	T	N	V	G	G	A	V	V	T	G	V	T	A	V	A	Q	K	T	V	E	G	A	G	N	I	A	<i>Uta stansburiana</i>	
40	V	G	S	K	T	K	E	G	V	V	Q	G	V	A	S	V	A	E	K	T	K	E	Q	A	S	H	L	G	G	A	V	P	S	G	A	G	-	-	-	-	-	-	-	N	I	A	<i>Uta stansburiana</i>				
40	V	G	S	R	T	K	E	G	V	H	G	V	T	T	V	A	E	K	T	K	E	Q	V	S	N	V	G	G	A	V	V	T	G	V	T	A	V	A	Q	K	T	V	E	G	A	G	N	I	A	<i>Uta stansburiana</i>	
51	V	G	T	K	T	K	E	G	V	V	Q	S	V	N	T	V	T	E	K	T	K	E	Q	A	N	V	V	G	G	A	V	V	A	G	V	N	T	V	A	S	K	T	V	E	G	V	E	N	V	A	<i>Uta stansburiana</i>

	90	100	110	120	
90	AATGFEVKKDQLGK-N--EEGAPQ--EGI--LED--MPVDPDNEAYEMPSP				<i>Homo sapiens</i>
90	AATGFVKKDDQMKG-G--EEGYPO--EGI--LED--MPVDPSSEAYEMPSP				<i>Rattus norvegicus</i>
79	AATGLVKKEEFP-T-DLKPEEVAQ--EAAEEP-LIE-PLMEPEGESYEEOFP				<i>Bos taurus</i>
90	AATGLVKKDKDLAKQN--EEGFLQ--EGM--VNNTGAAVDPDNEAYEMPSP				<i>Gorilla gorilla</i>
101	AASGVVKLDEHGR-EIPAEQVVAEGKQTQEFLVR--ATEATE--				<i>Macaca mulatta</i>

130	-	140
130	E E G Y Q D Y E P E A	-
130	E E G Y Q D Y E P E A	
124	Q E E Y Q E Y E P E A	
133	E E E Y Q D Y E P E A	
140	- - - - - E T G K	

Figure 11

alpha-SYN exons 1-2 (SEQ ID NO: 14)

```

      10      20      30      40
      |      |      |      |
AATTTTCAGCGATGCGAGGGGCAAAGCGCTCTCGGCGGTGCG 40
GTGTGAGCCACCTCCCGGCGCTGCCTGTCTCCTCCAGCAG 80
CTCCCCAAGGGATAGGCTCTGCCCTTGGTGGTCGACCCTC 120
AGGCCCTCGNTCTCCAGGNCGACTCTGACGAGGGGTAGG 160
GGGTGGTCCCCNGGAGGACCCAGAGGAAAGGCNGGGACAA 200

      210      220      230      240
      |      |      |      |
GAAGGGAGGGGAAGGGGAAGAGGAAGAGSCATCATCCCT 240
AGCCCAACCGCTCCCGATCTCCACAAGAGTGCTCGTGACC 280
CTAAACTTAACGTGAGGCGCAAAAGCGCCCAACCTTTTC 320
CCGCCCTTGNCCAGGCAGGCGGCTGGAGTTGATGGCTCAC 360
CCCGCGCCCCCTGCCCATCCCCATCCGAGATAGGGACGA 400

      410      420      430      440
      |      |      |      |
GGAGCACGCTGCAGGGAAAGCAGCGAGCGCCGGGAGAGGG 440
GCGGGCAGAAGCGCTGACAAATCAGCGGTGGGGGCGGAGA 480
GCCGAGGAGAAGGAGAAGGAGGAGGACTAGGAGGAGGAGG 520
ACGGCGACGACCAGAAGGGGCCCCAAGAGAGGGGGCGAGCG 560
ACCGAGCGCCGCGACGCGAAGTGAGGTGCGTGCGGGCTCA 600

      610      620      630      640
      |      |      |      |
GCGCAGACCCCGGCCCGGCCCTCCTGAGAGCGTCCTGGG 640
CGCTCCCTCACGCCCTTGCCCTTCAAGCCTTCTGCCTTTCCA 680
CCCTCGTGAGCGGAGAACTGGGAGTGGCCATTGACGACA 720
GGTTAGCGGGTTTGCCTCCCACTCCCCAGCCTCGCGTCG 760
CCGGCTCACAGCGGCCCTCCTCTGGGGACAGTCCCCCCCCGG 800

      810      820      830      840
      |      |      |      |
GTGCCCCCTCCGCCCTTCTGTGCGCTCCTTTTCCTTCTTC 840
TTTCTATTAAATATTATTTGGGAATTGTTTAAATTTTTT 880
TTTTAAAAAAGAGAGAGGGCGNGGAGGAGTCCGAGTTGTG 920
GAGAAGCAGAGGGACTCAGGTAAGTACCTGTGGATCTAAA 960
CGGENGTCTTTGGAAATCCTGGAGAACGCCGGATGGAGAC 1000

      1010      1020      1030      1040
      |      |      |      |
GAATGGTCGTGGGNACCGGGAGGGGGTGGTGCTGCCATGA 1040
GGACCGCTGGGCCAGGTCTCTGGGAGGTGAGTACTTGTCC 1080
TTTGGGAGCCTAAGGAAAGAGACTTGACCTGGCTTTTCGT 1120
CCTGCTTCTGATATTCCCTTCTCCACAAGGGCTGAGAGNT 1160
TAGGCTGCTTCTCCGGGATCC 1181

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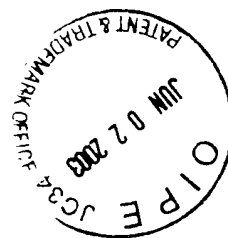


Figure 11 cont.

alpha-SYN exon 3 (SEQ ID NO: 15)

```

      10      20      30      40
+-----+
CTTAAAGAGTCTCACACTTTGGAGGGTTTCTCATGATT 40
TTCAGTGTTTTTGTATTTTCCCCGAAAGTTCTCATT 80
CAAAGTGATTTTATGTTTTCCAGTGTGGTGTAAGAAAT 120
TCATTAGCCATGGATGTATTCATGAAAGGACTTTCAAAGG 160
CCAAGGAGGGAGTTGTGGCTGCTGCTGAGAAAACCAAACA 200
      210      220      230      240
+-----+
GGGTGTGGCAGAAGCAGCAGGAAAGACAAAAGAGGGTGTT 240
CTCTATGTAGGTAGGTAAACCCCAAATGTCAGTTTGGTGC 280
TTGTTTCATGAGTGATGGGTTAGGATAACAATACTCTAAAT 320
GCTGGTAGTTCTCTCTTTGATTCATTTTGCATCATTGC 360
TTGTCAAAAAGGTGGACTGAGTCAGAGGTATGTGTAGGTA 400
      410      420      430      440
+-----+
GGTGAATGTGAACGTGTGTATNTGAGCTAATAGTAAAAAT 440
GCGACTGTTTGCTTTTCAGATTTTAAATTTGCCTAATAT 480
NTATGACTTNTTAAAATGAATGTTTCTGTACTACATAATT 520
CTATNTCAGAGACAGT 536

```



Figure 11 cont.

alpha-SYN exon 4 (SEQ ID NO:16)

```

      10      20      30      40
CTGCAGGTCAACGGATCTGTCCTAGTGCTGTACTTTTAA 40
AGCTTCTACAGTTCTGAATTCAAAATTATCTTCTCACTGG 80
GCCCCGGTGTTATCTCATTCTTTTTTCTCCTCTGTAAGTT 120
GACATGTGATGTGGGAACAAAGGGGATAAAGTCATTATTT 160
TGTGCTAAAATCGTAATTGGAGAGGACCTCCTGTTAGCTG 200
      210      220      230      240
GGCTTTCTTCTATNTATTGTGGTGGTTAGGAGTTCCTTCT 240
TCTAGTTTTAGGATATATATATATATTTTTTCTTTCCCT 280
GAAGATATAATAATATATATACTTCTGAAGATTGAGATTT 320
TTAAATTAGTTGTATTGAAACTAGCTAATCAGCAATTTA 360
AGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAG 400
      410      420      430      440
GCTCCAAAACCAAGGAGGGGAGTGGTGCATGGTGTGGCAAC 440
AGGTAAGCTCCATTGTGCTTATATCAAAGATGATATNTAA 480
AGTATCTAGTGATTAGTGTGGCCCAAGTATCAAGATTCCTA 520
TGAAATTGTAAAACAATCACTGAGCATCTAAGAACATATC 560
AGTCTTATTGAAACTGAATTCCTTATAAAGTATTTTTTAAA 600
      610      620      630      640
TAGGTAAATATTGATTATAAATAAAAAATATACTTGCCAA 640
GAATAATGAG 650

```



Figure 11 cont.

alpha-SYN exon 5 (SEQ ID NO: 17)

```

      10      20      30      40
      |      |      |      |
ATATCTTAGCCAAGATTCAATGTTTGGTTGAACCACTC 40
ACTTGACATCTTGGTGGCTTTTGTCTCTTGACCACTCA 80
GTTATCTATGGCATGTGTAGATACAGGTGTATGGAANCGA 120
TGGCTAGTGGAAGTGAATGATTTTAAGTCACTGTTATTC 160
TACCACCCTTTAATCTGTTGTTGCTCTTTATTTGTACCAG 200

      210      220      230      240
      |      |      |      |
TGGCTGAGAAGACCAAAGAGCAAGTGACAAATGTTGGAGG 240
AGCAGTGGTGACGGGTGTGACAGCAGTAGCCCAGAAGACA 280
GTGGAGGGAGCAGGGAGCATTGCAGCAGCCACTGGCTTTG 320
TCAAAAAGGACCAGTTGGGCAAGGTATGGCTGTGTACGTT 360
TTGTGTTACATTTATAAGCTGGTGAGATTACGGTTTCATTT 400

      410      420      430      440
      |      |      |      |
TCATGTGAAGCCTGGAGGCAGGAGCAAGATACTTACTGTG 440
GGGAACGGCTACCTGACCCTCCCCTTGTGAAAAAGTGCTA 480
CCTTTATATTGGTCTTGCTTGTTT 504

```



alpha-SYN exon 6 (SEQ ID NO: 18)

10 20 30 40  
AAAAGTTTACATACTTTGAGGTTGATAACCCATGTTGCCG 40  
CAATGTTTCCCCGGAGGCATTGTGGAGTTTAGAATGCCAG 80  
TAGTAATATTAAGGTGTGCCATTTTCAAGATCCGTGGCCA 120  
ACATCCCTATATGTAAGATTTTTTCCAAAACATGGTTCTGA 160  
TTTTTAAAAGTGAAAAATGCTACTTCATCATGTTCTTTTT 200  
210 220 230 240  
GTGCTTCTTACTTTAAATATTAGAATGAAGAAGGAGCCCC 240  
ACAGGAAGGAATTCTGGAAGATATGCCTGTGGATCCTGAC 280  
AATGAGGCTTATGAAATGCCTTCTGAGGTAGGAGTCCAAG 320  
CTGAATCTTTCTAACAAGACAGTACCAAAAACCTGTCATT 360  
GTCACATTTCTCTTTTCATTAGTGCTTAGTGAGAATCATT 400  
410 420 430 440  
GCTCTCTACATGCTCATTACGTGGACAACCTTGCAAGTTAA 440  
GAATAGTTTTTACATTTTTTAAAGGGTCCTTAAAAAAAAAAG 480  
AGGAGGAGGAAGATGAAGAAGAGGAAGAAAGGATGTAAAA 520  
GAAATCATATGTAGTCCACATAGCTTAATATACNTACTAC 560  
TTGACCCTTTACAGGAAAAGCTTTACTAACCCCTGCATTA 600  
610 620 630 640  
GAGAATATATTTTTTTGCAAAAACATTGATTGTAAATTTT 640  
AGTGTAAGTGGGGAGCCATTTCTATCTCATTTGGCTGTC 680  
CAGTGCTGATGCGTAATTGAACTTATACTAACAGTGTGT 720  
GCTGTCT 727



10 20 30 40  
TTTTGATTTTTCTAATATTAGGAAGGGTATCAAGACTACG 40  
AACCTGAAGCCTAAGAAATATCTTTGCTCCCAGTTTCTTG 80  
AGATCTGCTGACAGATGTTCCATCCGTACAAGTGCTCAG 120  
TTCAAATGTGCTCAGTATGAAATTTTAAAGTTTCTAA 160  
AGTGTATCTGAAGTCTCCATCAGCACTGATTGAAGCAT 200  
210 220 230 240  
CTGTACCTGCCCCCACTCAGCATTTCGGTGCTTCCCTTTC 240  
ACTGAAGTGAATACATGGTAGCAGGGTCTTTGTGTGCTGT 280  
GGATTTTGTGGCTTCAATCTACGATGTTAAAACAAATTAA 320  
AAACACCTAAGTGACTACCACTTATTTCTAAATCCTCACT 360  
ATTTTTTGTGTGCTGTTGTTTCCAGAAGTTGTTAGTGATTG 400  
410 420 430 440  
CTATCATATATTATNAGATTTTTAGGTGTCTTTTAATGAT 440  
ACTGTCTAAGAATAATGACGTATTGTGAAATTTGTTAATA 480  
TATATNATACTTAAAAATATGTGAGCATGAACTATGCAC 520  
CTATAATACTAAATATGAAATTTTACCATTTTGCGATGTG 560  
TTTTATTCACTTGTGTTTGTATATNAATGGTGAGAATTAA 600  
610 620 630 640  
AATAAAACGTTATCTCATTGCAAAAATATTTTATTTTAT 640  
CCCATCTCACTTTAATAATAAAAATCATGCTTATAAGCAA 680  
CATGAATTAAGAACTGACACAAAGGACAAAATATAAAGT 720  
TATTAATAGCCATTTGAAGAAGGAGGAATTTTAGAAGAGG 760  
TAGAGAAAATGGAACATTAACCCTACACTCGGAATTCCT 800  
810 820 830 840  
GAAGCAACACTGCCAGAAGTGTGTTTTGGTATGCACTGGT 840  
TCCTTAAGTGGCTGTGATTAATTATTGAAAGTGGGGTGT 880  
GAAGACCCCACTACTATTGTAGAGTGGTCTATTTCTCCC 920  
TTCAATCCTGTCAATGTTTGCTTTACGTATTTGGGGAAC 960  
TGTGTTTGATGTGTATGTGTTTATAATTGTTATACATTT 1000  
1010 1020 1030 1040  
TTAATTGAGCCTTTTATTAACATATATTGTTATTTTGTG 1040  
TCGAAATAATTTTTTAGTTAAAATCTATTTGTCTGATAT 1080  
TGGTGTGAATGCTGTACCTTTCTGACAATAAATAATATNC 1120  
GACCATGAATAAAAAAAAAAAAAAAAAAGTGGGTCCCCGGGA 1160  
CTAAGCAGTGTAGAAGATGATTTTGACTACACCCTCCTTA 1200





Figure 11 cont.

alpha-SYN exon 7

1210 1220 1230 1240  
GAGAGCCATAAGACACATTAGCACATATTAGCACATTCAA 1240  
GGCTCTGAGAGAATGTGGTTAACTTTGTTTAACTCAGCAT 1280  
TCCTCACTTTTTTTTTTAAATCATCAGAAATTCTCTCTCT 1320  
CTCTCTCTTTTTCTCTCGCTCTCTTTTTTTTTTTTTTTT 1360  
TTTTACAGGAAATGCCTTTAAACATCGTTGGGAACTACCA 1400  
1410 1420 1430 1440  
GAGTCACCTTAAAGGGGAGNATCAATTCTCTAGGACTGGAT 1440  
AAAAATTTTCATGGGCCTCCTTTAAAATGTTGCCCAAATAT 1480  
ATGGAATTCTAGGGGTTTTTCCNTAGGGGGAAGGGTTTTT 1520  
TCTCTTTTCNGGGGAGGATCCTTTTAACNCCCCNGGGGGG 1560  
NGCCCGGAAAATAAACTTGGNGGGGGGGNAAAAC TT 1596

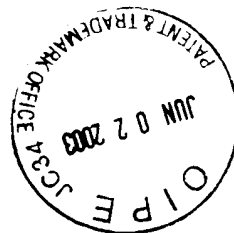


Figure 1 (SEQ ID NO: 1)

3 (SEQ ID NO: 2)

gcataacagcaatttaaggctagcttgagacttatgtcttggaatttggtttlltgtaggcTCCAAAAACCAAGGAGGAGTGGTGCATGGTGTGCAACACAGataagctccattg  
 Tsp45 I  
 Gly Ser Lys Thr Lys Glu Gly Val Val His Gly Val Thr  
 tgccttatcaagatgatatttaaggtatctagtgatttagtgtagcccgatccaagattccctatgaatttgttaaaccaatcaactgagcattctongnacatatac  
 13

(SEQ ID NO: 3)



Figure 4

	10	20	30	
1	MDVFMKGLSKAKKEGVVAAAEKTKQGVAAEAGKT			Homo sapiens
1	MDVFMKGLSKAKKEGVVAAAEKTKQGVAAEAGKT			Rattus norvegicus
1	MDVFMKGLSKAKKEGVVAAAEKTKQGVAAEAGKT			Ros laurus
1	MDVFMKGLSKAKKEGVVAAAEKTKQGVAAEAGKT			Serinus canaria
1	MDVLLKKGFSFAKEGVVAAAEKTKQGVQDAAEKTKKEGVMY			Torpedo californica
	40	50	60	70
40	VGSKTKKEGVVHGVVATVAEKTKEQVTNVGGAVVVTGVTAVAQKTVEGAGSIA			Homo sapiens
40	VGSKTKKEGVVHGVVATVAEKTKEQVTNVGGAVVVTGVTAVAQKTVEGAGSIA			Rattus norvegicus
40	VGSKTKKEGVVHGVVATVAEKTKEQVTNVGGAVVVTGVTAVAQKTVEGAGSIA			Ros laurus
40	VGSRTKEGVVHGVVATVAEKTKEQVTNVGGAVVVTGVTAVAQKTVEGAGSIA			Serinus canaria
51	VGTTKKEGVVQSVNTVTETKEQANVVGGAVVAGVNTVASKTVEGVENVA			Torpedo californica
	90	100	110	120
90	AATGTFVKKDQLGK-N--EEGAPQ--EGI--LED--MPVDPDNEAYEMPS			Homo sapiens
90	AATGTFVKKDQMGK-G--EEGYPQ--EGI--LED--MPVDPDNEAYEMPS			Rattus norvegicus
79	AATGLVKKKEEFPT-DLKPEEVAQ--EAAEEPLIE--PLMEPEGESYEEQP			Ros laurus
90	AATGLVKKDQLAKQN--EEGFLQ--EGM--VNNTGAAVDDPDNEAYEMPP			Serinus canaria
101	AASGVVKKLDEHGR-EIPAEQVAEGKQTTQEPLVB--ATEATE--			Torpedo californica
	130	140		
130	EEGYQDYEPEA			
130	EEGYQDYEPEA			
124	QEEYQDYEPEA			
133	EEGYQDYEPEA			
140	-----ETGK			

Homo sapiens (SEQ ID NO: 4)  
Rattus norvegicus (SEQ ID NO: 5)  
Ros laurus (SEQ ID NO: 6)  
Serinus canaria (SEQ ID NO: 7)  
Torpedo californica (SEQ ID NO: 8)

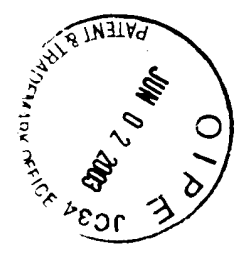


Figure 11

alpha-SYN exons 1-2 (SEQ ID NO: 14)

10 20 30 40  
AATTT CAGCG ATGCG AGGGCAAAGCGCTCTCGGCGGTGCG 40  
GTGTGAGCCACCTCCCGGCGCTGCCTGTCTCCTCCAGCAG 80  
CTCCCCAAGGGATAGGCTCTGCCCTTGGTGGTTCGACCCCTC 120  
AGGCCCTCGNTCTCCCAGGNCGACTCTGACGAGGGGTAGG 160  
GGGTGGTCCCCNGGAGGACCCAGAGGAAAGGCNNGGACAA 200

210 220 230 240  
GAAGGGAGGGGAAGGGGAAAGAGGAAGAGGCATCATCCCT 240  
AGCCCAACCGCTCCCGATCTCCACAAGAGTGCTCGTGACC 280  
CTAAACTTAACGTGAGGCGCAAAAGCGCCCCAACCTTTTC 320  
CCGCCTTGNNCCAGGCAGGCGGCTGGAGTTGATGGCTCAC 360  
CCCGCGCCCCCTGCCCATCCCCATCCGAGATAGGGACGA 400

410 420 430 440  
GGAGCACGCTGCAGGGAAAGCAGCGAGCGCCGGGAGAGGG 440  
GCGGGCAGAAGCGCTGACAAATCAGCGGTGGGGGCGGAGA 480  
GCCGAGGAGAAGGAGAAGGAGGAGGACTAGGAGGAGGAGG 520  
ACGGCGACGACCAGAAGGGGCCCCAAGAGAGGGGGCGAGCG 560  
ACCGAGCGCCGCGACGCGAAGTGAGGTGCGTGCGGGCTCA 600

610 620 630 640  
GCGCAGACCCCGGCCCGGCCCTCCTGAGAGCGTCTTGGG 640  
CGCTCCCTCACGCCTTGCTTCAAGCCTTCTGCCTTTCCA 680  
CCCTCGTGAGCGGAGAACTGGGAGTGGCCATTGACGACA 720  
GGTTAGCGGGTTTGCTTCCCACTCCCCAGCCTCGCGTCG 760  
CCGGCTCACAGCGGCCTCTCTGGGGACAGTCCCCCCCCGG 800

810 820 830 840  
GTGCCCCCTCGCCCTTCTGTGCGCTCCTTTTCTTCTTC 840  
TTTCTATTAAATATTATTTGGGAATTGTTTAAATTTTTT 880  
TTTTAAAAAAGAGAGAGGCGNGGAGGAGTCGGAGTTGTG 920  
GAGAAGCAGAGGGACTCAGGTAAGTACCTGTGGATCTAAA 960  
CGGNGTCTTTGGAAATCCTGGAGAACGCCGGATGGAGAC 1000

1010 1020 1030 1040  
GAATGGTCGTGGGNACCGGGAGGGGGTGGTGCTGCCATGA 1040  
GGACCGCTGGGCCAGGTCTCTGGGAGGTGAGTACTTGTCC 1080  
TTTGGGGAGCCTAAGGAAAGAGACTTGACCTGGCTTTTCT 1120  
CCTGCTTCTGATATTCCCTTCTCCACAAGGGCTGAGAGNT 1160  
TAGGCTGCTTCTCCGGGATCC 1181



Figure 11 cont.

alpha-SYN exon 3 (SEQ ID NO: 15)

```

      10      20      30      40
      |      |      |      |
CTTAAAAGAGTCTCACACTTTGGAGGGTTTCTCATGATT 40
TTCAGTGTTTTTGTATTTTTCCCGAAAGTTCTCATT 80
CAAAGTGATTTTATGTTTTCCAGTGTTGGTGTAAGAAAT 120
TCATTAGCCATGGATGTATTCATGAAAGGACTTTCAAAGG 160
CCAAGGAGGGAGTTGTGGCTGCTGCTGAGAAAACCAAACA 200
      210      220      230      240
      |      |      |      |
GGGTGTGGCAGAAGCAGCAGGAAAGACAAAAGAGGGTGTT 240
CTCTATGTAGGTAGGTAAACCCCAAATGTCAGTTTGGTGC 280
TTGTTTCATGAGTGATGGGTTAGGATAACAATACTCTAAAT 320
GCTGGTAGTTCTCTCTCTTGATTCATTTTGCATCATTGC 360
TTGTCAAAAAGGTGGACTGAGTCAGAGGTATGTGTAGGTA 400
      410      420      430      440
      |      |      |      |
GGTGAATGTGAACGTGTGTATNTGAGCTAATAGTAAAAAT 440
GCGACTGTTTGCTTTTCAGATTTTAAATTTGCCTAATAT 480
NTATGACTTNTTAAAATGAATGTTTCTGTACTACATAATT 520
CTATNTCAGAGACAGT 536

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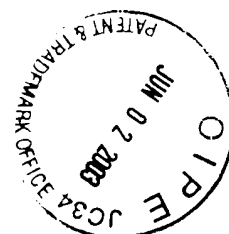


Figure 11 cont.

alpha-SYN exon 4 (SEQ ID NO:16)

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      10      20      30      40
      |      |      |      |
CTGCAGGTCAACGGATCTGTCCTAGTGCTGTACTTTTAA 40
AGCTTCTACAGTTCTGAATTCAAATTATCTTCTCACTGG 80
GCCCCGGTGTTATCTCATTCTTTTTTCTCCTCTGTAAGTT 120
GACATGTGATGTGGGAACAAAGGGGATAAAGTCATTATTT 160
TGTGCTAAAATCGTAATTGGAGAGGACCTCCTGTTAGCTG 200

      210     220     230     240
      |     |     |     |
GGCTTTTCTTCTATNTATTGTGGTGGTTAGGAGTTCCTTCT 240
TCTAGTTTTAGGATATATATATATATTTTTTTCTTTCCCT 280
GAAGATATAATAATATATATACTTCTGAAGATTGAGATTT 320
TTAAATTAGTTGTATTGAAAAGTAGCTAATCAGCAATTTA 360
AGGCTAGCTTGAGACTTATGTCTTGAATTTGTTTTTGTAG 400

      410     420     430     440
      |     |     |     |
GCTCCAAAACCAAGGAGGGAGTGGTGCATGGTGTGGCAAC 440
AGGTAAGCTCCATTGTGCTTATATCAAAGATGATATNTAA 480
AGTATCTAGTGATTAGTGTGGCCAGTATCAAGATTCCTA 520
TGAAATTGTAAAACAATCACTGAGCATCTAAGAACATATC 560
AGTCTTATTGAAACTGAATTCCTTATAAAGTATTTTTTAA 600

      610     620     630     640
      |     |     |     |
TAGGTAAATATTGATTATAAATAAAAAATATACTTGCCAA 640
GAATAATGAG 650

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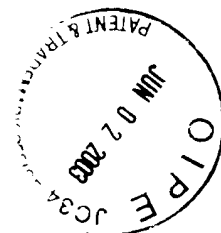


Figure 11 cont.

alpha-SYN exon 5 (SEQ ID NO: 17)

```

      10      20      30      40
      |      |      |      |
ATATCTTAGCCAAGATTCAATGTTTGGTTGAACCACACTC 40
ACTTGACATCTTGGTGGCTTTTGTCTCTTGACCACTCA 80
GTTATCTATGGCATGTGTAGATACAGGTGTATGGAANCGA 120
TGGCTAGTGGAAGTGAATGATTTTAAGTCACTGTTATTC 160
TACCACCCTTTAATCTGTTGTTGCTCTTTATTTGTACCAG 200
      210      220      230      240
      |      |      |      |
TGGCTGAGAAGACCAAAGAGCAAGTGACAAATGTTGGAGG 240
AGCAGTGGTGACGGGTGTGACAGCAGTAGCCCAGAAGACA 280
GTGGAGGGAGCAGGGAGCATTGCAGCAGCCACTGGCTTTG 320
TCAAAAAGGACCAGTTGGGCAAGGTATGGCTGTGTACGTT 360
TTGTGTTACATTTATAAGCTGGTGAGATTACGGTTCATTT 400
      410      420      430      440
      |      |      |      |
TCATGTGAAGCCTGGAGGCAGGAGCAAGATACTTACTGTG 440
GGGAACGGCTACCTGACCCTCCCCTTGTGAAAAAGTGCTA 480
CCTTTATATTGGTCTTGCTTGTTT 504

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alpha-SYN exon 6 (SEQ ID NO: 18)

10 20 30 40

AAAAGTTTACATACTTTGAGGTTGATAACCCATGTTGCCG 40  
CAATGTTTCCCCGGAGGCATTGTGGAGTTTAGAATGCCAG 80  
TAGTAATATTAAGGTGTGCCATTTTCAAGATCCGTGGCCA 120  
ACATCCCTATATGTAAGATTTTTTCCAAAACATGGTTCTGA 160  
TTTTTAAAAGTGAAAAATGCTACTTCATCATGTTCTTTTT 200

210 220 230 240

GTGCTTCTTACTTTAAATATTAGAATGAAGAAGGAGCCCC 240  
ACAGGAAGGAATTCTGGAAGATATGCCTGTGGATCCTGAC 280  
AATGAGGCTTATGAAATGCCTTCTGAGGTAGGAGTCCAAG 320  
CTGAATCTTTCTAACAAGACAGTACCAAAAACCTGTCATT 360  
GTCACATTTCTCTTTCATTAGTGCTTAGTGAGAATCATT 400

410 420 430 440

GCTCTCTACATGCTCATTACGTGGACAACCTTGCAAGTTAA 440  
GAATAGTTTTTACATTTTTTAAAGGTCCTTAAAAAAAAAAG 480  
AGGAGGAGGAAGATGAAGAAGAGGAAGAAAGGATGTAAAA 520  
GAAATCATATGTAGTCCACATAGCTTAATATACNTACTAC 560  
TTGACCCTTTACAGGAAAAGCTTTACTAACCCCTGCATTA 600

610 620 630 640

GAGAATATATTTTTTTGCAAAAACATTGATTGTAAATTTT 640  
AGTGTAAGTGGGGAGCCATTTCTATCTCATTGGCTGTC 680  
CAGTGCTGATGCGTAATTGAAACTTATACTAACAGTGTGT 720  
GCTGTCT 727





10 20 30 40  
TTTTGATTTTCTAATATTAGGAAGGGTATCAAGACTACG 40  
AACCTGAAGCCTAAGAAATATCTTTGCTCCCAGTTTCTTG 80  
AGATCTGCTGACAGATGTTCCATCCTGTACAAGTGCTCAG 120  
TTCCAATGTGCCCAGTCAATGACATTTCTCAAAGTTTTTAC 160  
AGTGTATCTCGAAGTCTTCCATCAGCAGTGATTGAAGCAT 200

210 220 230 240  
CTGTACCTGCCCCCACTCAGCATTTCGGTGCTTCCCTTTC 240  
ACTGAAGTGAATACATGGTAGCAGGGTCTTTGTGTGCTGT 280  
GGATTTTGTGGCTTCAATCTACGATGTTAAAACAAATTAA 320  
AAACACCTAAGTGACTACCACTTATTTCTAAATCCTCACT 360  
ATTTTTTTGTGCTGTTGTTTTCAGAAAGTTGTTAGTGATTG 400

410 420 430 440  
CTATCATATATTATNAGATTTTTAGGTGTCTTTTAATGAT 440  
ACTGTCTAAGAATAATGACGTATTGTGAAATTTGTTAATA 480  
TATATNATACTTAAAAATATGTGAGCATGAACTATGCAC 520  
CTATAATACTAAATATGAAATTTTACCATTTTGCATGTG 560  
TTTTATTCACCTGTGTTTGTATATNAATGGTGAGAATTAA 600

610 620 630 640  
AATAAACGTTATCTCATTGCAAAAATATTTTATTTTAT 640  
CCCATCTCACTTTAATAATAAAAAATCATGCTTATAAGCAA 680  
CATGAATTAAGAACTGACACAAAGGACAAAAATATAAAGT 720  
TATTAATAGCCATTTGAAGAAGGAGGAATTTTAGAAGAGG 760  
TAGAGAAAAATGGAACATTAACCCTACACTCGGAATTCCT 800

810 820 830 840  
GAAGCAACACTGCCAGAAGTGTGTTTTGGTATGCACTGGT 840  
TCCTTAAGTGGCTGTGATTAATTATTGAAAGTGGGGTGTT 880  
GAAGACCCCACTACTATTGTAGAGTGGTCTATTTCTCCC 920  
TTCAATCCTGTCAATGTTTGCTTTACGTATTTGGGGAAC 960  
TGTGTTTGATGTGTATGTGTTTATAATTGTTATACATTT 1000

1010 1020 1030 1040  
TTAATTGAGCCTTTTATTAACATATATTGTTATTTTGTG 1040  
TCGAAATAATTTTTAGTTAAAATCTATTTGTCTGATAT 1080  
TGGTGTGAATGCTGTACCTTTCTGACAATAAATAATATNC 1120  
GACCATGAATAAAAAAAAAAAAAAGTGGGTTCCCGGGAA 1160  
CTAAGCAGTGTAGAAGATGATTTTGACTACACCCTCCTTA 1200



Figure 11 cont.

alpha-SYN exon 7

1210 1220 1230 1240  
GAGAGCCATAAGACACATTAGCACATATTAGCACATTCAA 1240  
GGCTCTGAGAGAATGTGGTTAACTTTGTTTAACTCAGCAT 1280  
TCCTCACTTTTTTTTTTTAATCATCAGAAATTCTCTCTCT 1320  
CTCTCTCTTTTTCTCTCGCTCTCTTTTTTTTTTTTTTTT 1360  
TTTTACAGGAAATGCCTTTAAACATCGTTGGGAACCTACCA 1400  
1410 1420 1430 1440  
GAGTCACCTTAAAGGGGAGNATCAATTCTCTAGGACTGGAT 1440  
AAAAATTTTCATGGGCCTCCTTTAAATGTTGCCCAAATAT 1480  
ATGGAATTCTAGGGGTTTTTCNTAGGGGGAAGGGTTTTT 1520  
TCTCTTTTCNGGGGAGGATCCTTTTAACNCCCCNGGGGGG 1560  
NGCCCGGAAAATAAACTTGGNGGGGGGGNAAAACCTT 1596

